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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/531,064	05/19/2005	Daniel Baglione	VA30408	2531	
	7590 01/10/2007		EXAM	INER	
ALSTOM POWER INC. INTELLECTUAL PROPERTY LAW DEPT.			WILSON, G	WILSON, GREGORY A	
P.O. BOX 500 WINDSOR, CT 06095		•	ART UNIT	PAPER NUMBER	
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			3749		
SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVER	DELIVERY MODE	
3 MONTHS		01/10/2007	PAF	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

	140				
	Application No.	Applicant(s)			
Office Action Summer	10/531,064	BAGLIONE, DANIEL			
Office Action Summary	Examiner	Art Unit			
	Gregory A. Wilson	3749			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 5/19/	<u>.</u> 05.				
) This action is FINAL . 2b) ☑ This action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4)⊠ Claim(s) <u>1-35</u> is/are pending in the application.					
4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1-22,26-28 and 30-35</u> is/are rejected.					
7)⊠ Claim(s) <u>23-25 and 29</u> is/are objected to.	·				
8) Claim(s) are subject to restriction and/or	r election requirement.	_			
Application Papers					
9)⊠ The specification is objected to by the Examine.	r.				
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11) ☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.			
Priority under 35 U.S.C. § 119		•			
12)⊠ Acknowledgment is made of a claim for foreign a)⊠ All b)□ Some * c)□ None of:	priority under 35 U.S.C. § 119(a)	-(d) or (f).			
1. Certified copies of the priority documents have been received.					
2. Certified copies of the priority documents have been received in Application No					
3. Copies of the certified copies of the priority documents have been received in this National Stage					
application from the International Bureau					
* See the attached detailed Office action for a list	of the certified copies not receive	d. ·			
Attachment(s)	_				
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail Da				
3) Information Disclosure Statement(s) (PTO/SB/08)	5) 🔲 Notice of Informal P				
Paper No(s)/Mail Date <u>4/12/05</u> .	6) Other:	•			

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DETAILED ACTION

Specification

The following guidelines illustrate the preferred layout for the specification of a utility application. These guidelines are suggested for the applicant's use.

Arrangement of the Specification

As provided in 37 CFR 1.77(b), the specification of a utility application should include the following sections in order. Each of the lettered items should appear in upper case, without underlining or bold type, as a section heading. If no text follows the section heading, the phrase "Not Applicable" should follow the section heading:

- (a) TITLE OF THE INVENTION.
- (b) CROSS-REFERENCE TO RELATED APPLICATIONS.
- (c) STATEMENT REGARDING FEDERALLY SPONSORED RESEARCH OR DEVELOPMENT.
- (d) THE NAMES OF THE PARTIES TO A JOINT RESEARCH AGREEMENT.
- (e) INCORPORATION-BY-REFERENCE OF MATERIAL SUBMITTED ON A COMPACT DISC.
- (f) BACKGROUND OF THE INVENTION.
 - (1) Field of the Invention.
 - (2) Description of Related Art including information disclosed under 37 CFR 1.97 and 1.98.
- (a) BRIEF SUMMARY OF THE INVENTION.
- (h) BRIEF DESCRIPTION OF THE SEVERAL VIEWS OF THE DRAWING(S).
- (i) DETAILED DESCRIPTION OF THE INVENTION.
- (i) CLAIM OR CLAIMS (commencing on a separate sheet).
- (k) ABSTRACT OF THE DISCLOSURE (commencing on a separate sheet).
- (I) SEQUENCE LISTING (See MPEP § 2424 and 37 CFR 1.821-1.825. A "Sequence Listing" is required on paper if the application discloses a nucleotide or amino acid sequence as defined in 37 CFR 1.821(a) and if the required "Sequence Listing" is not submitted as an electronic document on compact disc).

The disclosure is objected to because of the following informalities:

On page 18, line 35, the description of Figure 23 is incomplete.

Appropriate correction is required.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 27 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claim 27 the applicants discloses that gases are evacuated from the centrifugal separator via a vertical duct situated inside the separator and direct the gases toward the bottom of the separator, but as shown in Figures 5-8 of the applicants drawings, the gases are directed upwardly out of the separator.

Claims 6-15, 22 and 30-35 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claims 6-14 and 32-35 recites the limitation "the rear cage" in line 2. There is insufficient antecedent basis for this limitation in the claim.

Claims 15, 22, and 30 recites the limitation "the deflector" in line 2. There is insufficient antecedent basis for this limitation in the claim.

Claim 31 recites the limitation "one of the evacuation ducts" in line 2. There is insufficient antecedent basis for this limitation in the claim.

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Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

Claims 1-3, 5, 16-19, 21, 26, 27 and 28 are rejected under 35 U.S.C. 102(b) as being anticipated by Dietz (5,771,844). Dietz discloses a circulating fluidized bed reactor (14) connected by an acceleration duct (12) to a centrifugal separator (10) for separating particles from hot gases coming from the reaction chamber, the acceleration duct is inside the top of the reaction chamber and the separator has straight vertical tube walls shown in traversal section identified in Figures 4 & 5. The acceleration duct has an inlet which is perpendicular to the extrados of the duct (SEE Figure 3) and has a gradually changing cross section by way of the curved portion (13) (claim 26), Figure 3 also show a common and aligned tube wall of the separator and the reaction chamber

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which also share the same wall with the acceleration duct (Figure 4). The tubes (31, 33 and 35) are welded together by metal fins and covered with a refractory material (SEE column 5, lines 22-27). Gases are evacuated from the centrifugal separator by way of vertical duct (18) situated in the middle of the separator.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 20 is rejected under 35 U.S.C. 103(a) as being unpatentable over Dietz (5,771,844) in view of Dietz (5,203,284). Dietz '844 discloses the applicants primary inventive concept as stated above including an acceleration duct made of tubes, however the illustration of Figure 3 does not conclusively show tubes forming a separate circuit regarding element 13. Dietz '284 more clearly shows a separate tube circuit (54a) as a portion of the acceleration duct. It would have been obvious at the time the invention was made to a person having ordinary skill in the art to which the subject matter pertains to have modified the acceleration duct of Dietz '844 to consist of tubes forming a separate circuit as taught by Dietz '284 since the applicant has not disclosed that having a separate circuit solves any stated problem in a new or unexpected way or is for any particular purpose which is unobvious to one of ordinary skill.

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Claim 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over Dietz (5,771,844). Dietz discloses the applicants primary inventive concept as stated above including an acceleration duct having an inlet mouth substantially perpendicular to the extrados of the duct, however, Dietz does not specifically teach an alternate embodiment of the inlet mouth being parallel to the extrados of the duct. It would have been obvious to one having ordinary skill in the art at the time the invention was made to design the acceleration duct with an inlet mouth substantially parallel to the extrados of the duct since such a modification is regarded as an obvious matter of design choice and within the level or ordinary skill in the art.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Baglione et al (6,779,492) also discloses a circulating fluidized bed including many of the features claimed by the applicant in claims 23-35.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Gregory A. Wilson whose telephone number is (571)272-4882. The examiner can normally be reached on 7 am - 4:30 pm EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Josiah Cocks can be reached on (571) 272-4874. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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GREGORY WILSON
PRIMARY EXAMINER

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January 3, 2007